

CLMSPTO

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Claims 1-33 are cancelled

34. (ADDED) A motion picture retrieval information generating apparatus (40) that generates retrieval information for retrieving motion picture data constituted of one or more scenes (140, 142, 144, 146, 160), comprising:

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a retrieval information generating section (102, 103, 104, 105) that generates retrieval information corresponding to each of said one or more scenes on the basis of said motion picture data, and

wherein said retrieval information generating section (102, 103, 104, 105) comprises:

a first summary information generating means (103) for forming plural spatially split blocks having a length of each of said scenes in a direction of the time axis obtained by spatially splitting said each of said scenes (140, 142, 144, 146, 160) to generate summary information (188) of a spatially split block unit.

35. (ADDED) The motion picture retrieval information generating apparatus according to claim 34, wherein:

each of said scenes (140, 142, 144, 146, 160) are obtained by dividing consecutive motion picture data on the time axis, and

said the motion picture retrieval information generating apparatus further comprises:

a motion picture structure information outputting section (101) outputting motion picture structure information expressing positions, in said motion picture data, of each of said scenes, and

wherein said retrieval information generating section (102, 103, 104, 105) generates retrieval information corresponding to each of said scenes (140, 142, 144, 146, 160) on the basis of said motion picture structure information and said motion picture data.

36. (ADDED) The motion picture retrieval information generating apparatus according to claim 34, wherein said first summary information generating means (103) spatially splits each of said scenes (140, 142, 144, 146, 160) into a predetermined number of parts in each of two directions defined spatially.

37. (ADDED) The motion picture retrieval information generating apparatus according to claim 34, wherein said first summary information generating means (103) splits each of said scenes (140, 142, 144, 146, 160) into 2^{th} the nth power parts, n being a predetermined number.

38. (ADDED) The motion picture retrieval information generating apparatus according to claim 37, wherein said retrieval information generating section (102, 103, 104, 105) further comprises:

a second summary information generating means (102) for temporally dividing each of said scenes (140, 142, 144, 146, 160) to form plural temporally divided blocks having a picture size of said each of said scenes spatially and to generate summary information of a temporally divided block unit.

39. (ADDED) The motion picture retrieval information generating apparatus according to claim 38, wherein said retrieval information generating section (102, 103, 104, 105) further comprises:

a third summary information generating means (104) for generating summary information of all of each of said scenes (140, 142, 144, 146, 160).

40. (ADDED) The motion picture retrieval information generating apparatus according to claim 36, wherein said retrieval information generating section (102, 103, 104, 105) further comprises:

a second summary information generating means (102) for temporally dividing each of said scenes (140, 142, 144, 146, 160) to form plural temporally divided blocks having a picture size of said each of said scenes spatially and to generate summary information of a temporally divided block unit.

41. (ADDED) The motion picture retrieval information generating apparatus according to claim 40, wherein said retrieval information generating section (102, 103, 104, 105) further comprises:

a third summary information generating means (104) for generating summary information of all of each of said scenes (140, 142, 144, 146, 160).

42. (ADDED) The motion picture retrieval information generating apparatus (40) according to claim 34, wherein said retrieval information generating section (102, 103, 104, 105) further comprises:

a second summary information generating means (102) for temporally dividing each of said scenes (140, 142, 144, 146, 160) to form plural temporally divided blocks

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having a picture size of said each of said scenes spatially and to generate summary information of a plural temporally divided block unit.

43. {ADDED} The motion picture retrieval information generating apparatus (40) according to claim 42, wherein said retrieval information generating section (102, 103, 104, 105) further comprises:

a third summary information generating means (104) for generating summary information of all of each of said scenes (140, 142, 144, 146, 160).

44. {ADDED} The motion picture retrieval information generating apparatus (40) according to claim 37, wherein said retrieval information generating section (102, 103, 104, 105) further comprises:

a third summary information generating means (104) for generating summary information of all of each of said scenes (140, 142, 144, 146, 160).

45. {ADDED} The motion picture retrieval information generating apparatus (40) according to claim 36, wherein said retrieval information generating section (102, 103, 104, 105) further comprises:

a third summary information generating means (104) for generating summary information of all of each of said scenes (140, 142, 144, 146, 160).

46. (ADDED) The motion picture retrieval information generating apparatus (40) according to claim 34, wherein said retrieval information generating section (102, 103, 104, 105) further comprises:

a third summary information generating means (104) for generating summary information of all of each of said scenes (140, 142, 144, 146, 160).

47. (ADDED) A motion picture retrieving apparatus (50) for retrieving a desired picture using retrieval information corresponding to each of one or more scenes (140, 142, 144, 146, 160) constituting motion picture data, in which said motion picture data is related with said retrieval information and said retrieval information comprises summary information (188) with plural spatially split blocks having a length of each of said scenes in a direction of the time axis as a unit, obtained by spatially splitting said each of said scenes (140, 142, 144, 146, 160), comprising:

information managing means (501, 502) for reading and managing said retrieval information; and

first scene retrieving means (504), being connected with said information managing means, and for retrieving a scene (140, 142, 144, 146, 160) meeting a first retrieval request in response to said first retrieval request with a scene (140, 142, 144, 146, 160) as a retrieval unit, provided from the outside, using said summary information of a spatially split block unit included in said retrieval information.

48. (ADDED) The motion picture retrieving apparatus (50) according to claim 47, wherein:

said retrieval information further comprises summary information with plural temporally divided blocks having a picture size of each of said scenes spatially, obtained by temporally dividing said each of said scenes (140, 142, 144, 146, 160), as a unit, and

said motion picture retrieving apparatus further comprises:
second scene retrieving means (505), being connected to said information managing means (501, 502), for retrieving a scene (140, 142, 144, 146, 160) meeting a second retrieval request in response to said second retrieval request with a scene (140, 142, 144, 146, 160) as a retrieval unit, provided from the outside, using said summary information of a temporally divided block unit included in said retrieval information.

49. (ADDED) The motion picture retrieving apparatus (50) according to claim 48, wherein:

said retrieval information further comprises summary information with each of said scenes (140, 142, 144, 146, 160) as a unit, and

said motion picture retrieving apparatus further comprises:
third scene retrieving means (503), being connected with said information managing means (501, 502), and for retrieving a scene (140, 142, 144, 146, 160) meeting a third retrieval request in response to said third retrieval request with a scene (140, 142, 144, 146, 160) as a retrieval unit, provided from the outside, using

said summary information with a scene {140, 142, 144, 146, 160} as a unit included in said retrieval information.

50. (ADDED) The motion picture retrieving apparatus (50) according to claim 47, wherein:

said retrieval information further comprises summary information with each of said scenes {140, 142, 144, 146, 160} as a unit, and

said motion picture retrieving apparatus further comprises:

second scene retrieving means (503), connected to said information managing means (501, 502), for retrieving a scene {140, 142, 144, 146, 160} meeting a second retrieval request in response to said second retrieval request with a scene {140, 142, 144, 146, 160} as a retrieval unit, provided from the outside, using said summary information with a scene {140, 142, 144, 146, 160} as a unit included in said retrieval information.

51. (ADDED) A storage medium (107) in which retrieval information for retrieving motion picture data constituted of one or more scenes {140, 142, 144, 146, 160} is stored together with correspondence information between said retrieval information and said motion picture data, and

wherein said retrieval information comprises summary information (188) with plural spatially split blocks having a length of each of said scenes in a direction of the time axis as a unit, obtained by spatially splitting said each of said scenes {140, 142, 144, 146, 160}.

52. (ADDED) The storage medium (107) according to claim 51, wherein said retrieval information further comprises summary information with a plurality of temporally divided blocks having a picture size of each of said scenes spatially, obtained by temporally dividing said each of said scenes (140, 142, 144, 146, 160), as a unit.

53. (ADDED) The storage medium (107) according to claim 51, wherein said retrieval information further comprises summary information of all of each of said scenes (140, 142, 144, 146, 160).

54. (ADDED) A motion picture retrieval information managing apparatus for managing retrieval information corresponding to each of one or more scenes (140, 142, 144, 146, 160), constituting motion picture data,

wherein said motion picture data is related with said retrieval information and said retrieval information comprises summary information (188) with a plurality of spatially split blocks having a length of each of said scenes in a direction of the time axis obtained by spatially splitting said each of said scenes (140, 142, 144, 146, 160), as a unit, and

wherein said motion picture retrieval information managing apparatus comprises:

a read-out section (501) that reads out said retrieval information; and

a retrieval information managing section (502) that holds retrieval information read out by said read-out section (501) and outputs said summary information of a spatially split block unit included in said retrieval information in response to a first retrieval request with a scene (140, 142, 144, 146, 160) as a retrieval unit, provided from the outside.

55. (ADDED) The motion picture retrieval information managing apparatus according to claim 54, wherein:

said retrieval information further comprises summary information with plural temporally divided blocks having a picture size of each of said scenes spatially, obtained by temporally dividing said each of said scenes (140, 142, 144, 146, 160), as a unit, and

said retrieval information managing section (502) further outputs said summary information of a temporally divided block unit included in said retrieval information in response to a second retrieval request with a scene (140, 142, 144, 146, 160) as a retrieval unit, provided from the outside.

56. (ADDED) The motion picture retrieval information managing apparatus according to claim 53, wherein:

said retrieval information further comprises summary information with each of said scenes (140, 142, 144, 146, 160) as a unit, and

said retrieval information managing section (502) further outputs said summary information with a scene (140, 142, 144, 146, 160) as a unit included in

said retrieval information in response to a third retrieval request with a scene (140, 142, 144, 146, 160) as a retrieval unit, provided from the outside.

57. (ADDED) The motion picture retrieval information managing apparatus according to claim 54, wherein:

said retrieval information further comprises summary information with each of said scenes (140, 142, 144, 146, 160) as a unit, and

said retrieval information managing section (S02) further outputs said summary information with a scene (140, 142, 144, 146, 160) as a unit included in said retrieval information in response to a second retrieval request with a scene (140, 142, 144, 146, 160) as a retrieval unit, provided from the outside.